



**PATENT**

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

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In the **PATENT APPLICATION** of:

David K. Mesecher

**Application No.:** 10/068,718

**Confirmation No.:** 2637

**Filed:** February 6, 2002

For: BASE STATION FOR USE IN A CDMA  
COMMUNICATION SYSTEM USING AN  
ANTENNA ARRAY

**Group:** 2637

**Examiner:** Temesghen Ghebretinsae

**Our File:** I-2-0108.3US

**Date:** November 22, 2004

**SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT**

Mail Stop Amendment  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

Further to Applicant's Duty of Disclosure pursuant to 37 C.F.R. §1.56, Applicant wishes to bring to the Examiner's attention the material cited on the enclosed PTO-1449 form. Newly cited documents are indicated by an asterisk (\*). Copies of the newly cited non-U.S. patent documents are enclosed.

Pursuant to amended 37 C.F.R. §1.98(a)(2)(i), copies of the cited U.S. patent documents have not been included. Copies of all other newly cited references are enclosed.

**Applicant:** David K. Mesecher  
**Application No.:** 10/068,718

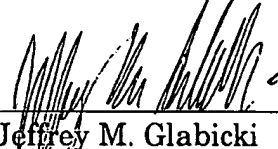
Pursuant to 37 C.F.R. § 1.97(e)(1), the undersigned certifies that each newly cited item of information indicated by a double asterisk (\*\*) contained in this Supplemental Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart application, copy enclosed, and that this communication was not received by any individual designated in §1.56(c) more than three (3) months prior to the filing of the information disclosure statement.

It is respectfully requested that the Examiner consider these documents and return an initialed copy of the PTO-1449 form indicating his consideration of the cited materials.

Respectfully submitted,

David K. Mesecher

By

  
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JMG/ks  
Enclosures (27)



FORM PTO-1449  U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE  INFORMATION DISCLOSURE STATEMENT BY APPLICANT  (Use several sheets if necessary)				ATTY. DOCKET NO. I-2-0108.3US		SERIAL NO. 10/068,718	
				APPLICANT David K. Mesecher			
				FILING DATE February 6, 2002		RECEIVED GROUP NOV 26 2004 Technology Center 2000	
U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
7c		3,662,268	05/1972	Gans et al.			
		4,736,460	04/1988	Rilling			
		4,901,307	02/1990	Gilhousen et al.			
	*	5,146,475	09/1992	Kubo			
	*	5,319,677	06/1994	Kim			
	*	5,331,666	07/1994	Dent			
	*	5,381,443	01/1995	Borth et al.			
	*	5,457,704	10/1995	Hoeher et al.			
	*	5,493,563	02/1996	Rozanski et al.			
	*	5,623,511	04/1997	Bar-David et al.			
		5,652,764	07/1997	Kanzaki et al.			
	*	5,673,294	09/1997	Namekata			
	*	5,680,419	10/1997	Bottomley			
		5,694,388	12/1997	Sawahashi et al.			
		5,809,020	09/1998	Bruckert et al.			
		5,812,542	09/1998	Bruckert et al.			
	*	5,822,380	10/1998	Bottomley			
		5,822,701	10/1998	Tomisato et al.			
		5,886,987	03/1999	Yoshida et al.			
	*	5,903,834	05/1999	Wallstedt et al.			
		5,952,968	09/1999	McDowell			
		5,982,327	11/1999	Vook et al.			
		5,991,332	11/1999	Lomp et al.			
		6,009,074	12.19/99	Kim et al.			
	*	6,026,130	02/2000	Rahmatullah et al.			
		6,044,120	03/2000	Bar-David et al.			
EXAMINER [Signature]				DATE CONSIDERED 3/8/05			

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.



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## U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
26		6,067,324	05/2000	Harrison			
	*	6,081,566	06/2000	Molnar et al.			
	*	6,108,517	08/2000	Arslan et al.			
		6,147,985	11/2000	Bar-David et al.			
	*	6,148,041	11/2000	Dent			
		6,154,443	11/2000	Huang et al.			
	*	6,160,801	12/2000	Uchida et al.			
	*	6,161,209	12/2000	Moher			
	*	6,215,762	04/2001	Dent			
	*	6,335,954	01/2002	Bottomley et al.			
		6,459,740	10/2002	Lo			
	*	6,470,047	10/2002	Kleinerman et al.			
	*	6,470,192	10/2002	Karlsson et al.			
	*	6,483,866	11/2002	Suzuki			
	*	6,484,285	11/2002	Dent			
	*	6,501,788	12/2002	Wang et al.			
	*	6,501,803	12/2002	Alamouti et al.			
	*	6,556,634	04/2003	Dent			
	*	6,647,070	11/2003	Shalvi et al.			
	*	6,694,154	02/2004	Molnar et al.			
	*	6,697,441	02/2004	Bottomley et al.			
	*	6,731,700	05/2004	Yakhnich et al.			

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7/6	*	2001/0030993	10/2001	Bottomely et al.			
	*	2002/003846	01/2002	Khayrallah et al.			
	*	2002/0122510	05/2002	Yakhnich et al.			
	*	2002/0181430	12/2002	Thomas et al.			
	*	2002/150187	10/2002	Chugg et al.			
	*	2002/154704	10/2002	Reshef			
	*	2003/0013468	01/2003	Khatri			
	*	2003/0053524	03/2003	Dent			
	*	2003/0058929	03/2003	Cox et al.			
	*	2003/0092456	05/2003	Dent			

## FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
6	*	0 674 455	10/1994	EP				
8	*	0 715 421	06/1996	EP				
		07 55 127 A2	01/1997	EP				
95	**	0 820 157 A	01/1998	EP				
C		08 81 781 A2	12/1998	EP				
8	*	0 892 508	01/1999	EP				
		08 99 894 A2	03/1999	EP				
		22 80 575 A	02/1995	GB				

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OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)			
		Pahlavan et al., "Performance of Adaptive Matched Filter Receivers Over Fading Multipath Channels," IEEE Transactions on Communications, Vol. 38, No. 12, December 1990, pp. 2106-2113.	
		Latva-aho et al., "LMMSE Detection for DS-CDMA Systems in Fading Channels," IEEE Transactions on Communications, Vol. 48, No. 2, February 2000, 194-199.	
		Majmudar et al., "Adaptive Single-User Receivers for Direct-Sequence Spread-Spectrum CDMA Systems," IEEE Transactions on Vehicular Technology, Vol. 49, No. 2, March 2000, pp. 379-389.	
		Foerster et al., "Coding for a Coherent DS-CDMA System Employing an MMSE Receiver in a Rayleigh Fading Channel," IEEE Transactions on Communications, Vol. 48, No. 6, June 2000, pp. 1012-1021.	

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